

WHAT IS CLAIMED IS:

1. A method of inhibiting the growth of a cell that expresses:
 - (a) the polypeptide shown in Figure 6 (SEQ ID NO:6);
 - (b) the polypeptide shown in Figure 6 (SEQ ID NO:6), lacking its associated signal peptide;
 - (c) an extracellular domain of the polypeptide shown in Figure 6 (SEQ ID NO:6), with its associated
5 signal peptide;
 - (d) an extracellular domain of the polypeptide shown in Figure 6 (SEQ ID NO:6), lacking its associated signal peptide;
 - (e) a polypeptide encoded by the nucleotide sequence shown in Figure 3 (SEQ ID NO:3); or
 - (f) a polypeptide encoded by the full-length coding region of the nucleotide sequence shown in Figure
10 3 (SEQ ID NO:3), said method comprising contacting said cell with an antibody, oligopeptide or organic molecule that binds to said protein, the binding of said antibody, oligopeptide or organic molecule to said protein thereby causing an inhibition of growth of said cell.
2. The method of Claim 1, wherein said antibody is a monoclonal antibody.
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3. The method of Claim 1, wherein said antibody is an antibody fragment.
4. The method of Claim 1, wherein said antibody is a chimeric or a humanized antibody.
- 20 5. The method of Claim 1, wherein said antibody, oligopeptide or organic molecule is conjugated to a growth inhibitory agent.
6. The method of Claim 1, wherein said antibody, oligopeptide or organic molecule is
25 conjugated to a cytotoxic agent.
7. The method of Claim 6, wherein said cytotoxic agent is selected from the group consisting of toxins, antibiotics, radioactive isotopes and nucleolytic enzymes.
8. The method of Claim 6, wherein the cytotoxic agent is a toxin.
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9. The method of Claim 8, wherein the toxin is selected from the group consisting of maytansinoid and calicheamicin.
10. The method of Claim 8, wherein the toxin is a maytansinoid.
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11. The method of Claim 1, wherein said antibody is produced in bacteria.

12. The method of Claim 1, wherein said antibody is produced in CHO cells.

13. The method of Claim 1, wherein said cell is a cancer cell.

5 14. The method of Claim 13, wherein said cancer cell is further exposed to radiation treatment or a chemotherapeutic agent.

15. The method of Claim 13, wherein said cancer cell is selected from the group consisting of a uterine cancer cell and a prostate cancer cell.

10 16. The method of Claim 1 which causes the death of said cell.